PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PALGE041519	FOR FURTHER ACTION a	see Form PCT/ISA/220 s well as, where applicable, item 5 below.
International application No. PCT/KR 2004/003425	(Barliest) Priority Date (day/month/year) 23 December 2003 (23.12.2003)	International filing date (day/month/year) 23 December 2004 (23.12.2004)
Applicant	LG ELECTRONICS INC.	
This international search report has been according to Article 18. A copy is being	prepared by this International Searching Authorsmitted to the International Bureau.	hority and is transmitted to the applicant
This international search report consists of the search report con	of a total of $\underline{5}$ sheets.	report.
randrage in Anicu it was nied' nini	sternational search was carried out on the bases otherwise indicated under this item.	• .
to this Authority (Rule 23.1(b)).	ation of the international application furnished
b. With regard to any nucleotide	and/or amino acid sequence disclosed in the	ne international application, see continuation of this first sheet.
2. Certain claims were found	unsearchable (see continuation of this first	
 Unity of invention is lacking With regard to the title, 	ng (see continuation of this first sheet)	succty
the text is approved as subm	itted by the applicant. by this Authority to read as follows:	•
— in low him both compliance	by the Admitthy to lead as to lows.	· .
•		
5. With regard to the abstract,		
the text is approved as submit the text has been established, sheet. The applicant may, wit comments to this Authority.	tted by the applicant. according to Rule 38.2(b), by this Authority hin one month from the date of mailing of th	as it appears in the continuation of this first is international search report, submit
6. With regard to the drawings,	•	
 a. the figure of the drawings to b 	be published with the abstract is Figure No.	6
as suggested by the applicant.		
	because the applicant failed to suggest a figur	
h Dama of the former is to be a to	pecause this figure better characterizes the in	vention.
b. none of the figures is to be public	shed with the abstract.	1

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International application No. PCT/KR 2004/003425

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of Item 5 of the first sheet)

An aspherical microlens arrays (100) comprise a base (120), and a plurality of aspherical microlenses (110) arranged on the base (120) and having different curvature radiuses and conic coefficients, respectively, along two orthogonal axes on the base (120) perpendicular to an optical axis, by which a degree of refraction, namely, a numerical aperture can be easily adjusted depending on each axial direction, a shperical aberration can be reduced, and concentration efficiency can be improved. In addition, in case of applying the aspherical microlens arrays (100) to a projection screen, an image sensor, or the like, it is advantageous to improve sensitivity and resolution thereof.

INTERN IONAL SEARCH REPORT

International application No. PCT/KR 2004/003425

A. CLASSIFICATION OF SUBJECT MATTER
IPC⁷: G02B 3/04, B29D 11/00, G02F 1/1335, H01L 31/0232
According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7: G02B, B29D, G02F, H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPODOC, WPI, PAJ

C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
. x	CA 2 417 925 A1 (TOPPAN PRINTI (30.01.2003) figures 1A-2D, 5-13, page 16, line 6 line 5 - page 32, line 22.		1, 2, 4-11, 25, 26, 29-32
Y A	-		34, 35 3, 12, 27, 28
х	JP 2003-337208 A (TOPPAN PRINT 28 November 2003 (28.11.2003) figures 1-4.	FING CO.)	. 1
Α	figures 5-8, paragraphs 20-39.		4, 8, 10-12, 22, 23, 25, 29-31
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Special ca "A" document to be of pa "E" earlier and filing dare document cited to e special rea "O" document means "P" document the priority	which may throw doubts on priority claim(s) or which stablish the publication date of another citation or or son (as specified) referring to an oral disclosure, see, exhibition or or published prior to the international filing date but later the date claimed	to understand the principle or theo "X" document of particular relevant cannot be considered novel or cam an inventive step when the document "Y" document of particular relevant cannot be considered to involve a document is combined with of	ifth the application but cited ry underlying the invention ex the claimed invention not be considered to involve ent is taken alone ex; the claimed invention an inventive step when the one or more other such cing obvious to a person
	tual completion of the international search 7 June 2005 (07.06.2005)	Date of mailing of the international sear 28 June 2005 (28.06.200	ch report 5)
•	ling address of the ISA/AT Austrian Patent Office Iner Straße 87, A-1200 Vienna	Authorized officer GRONAU E	
Facsimile No.	+43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 534 24 / 3	320

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International application No. PCT/KR 2004/003425

Citagory* Citation of document, with indication, where appropriate, of the relevant passages X JP 2001-356202 A (DAINIPPON PRINTING CO.) 26 December 2001 (26.12.2001) figures 1, 2, 4, paragraphs 4, 7-15. 34, 35	· C (Continue)	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	2004/003425	
X JP 2001-356202 A (DAINIPPON PRINTING CO.) 1, 33 26 December 2001 (26.12.2001) figures 1, 2, 4, paragraphs 4, 7-15.			Relevant to claim No.	
26 December 2001 (26.12.2001) figures 1, 2, 4, paragraphs 4, 7-15.			1, 33	
	X	26 December 2001 (26.12.2001)		
	Y	figures 1, 2, 4, paragraphs 4, 7-15.		
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INTERNATIC AL SEARCH REPORT Information on patent family members

mational application No. PCT/KR 2004/003425

Patent document clied in search report			Publication date	Patent family member(s)		Publication date	
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			·	WO	Al	02099530	2004-01-08 2002-12-12
				EP	A1	1394603	2004-03-03
				JP	A	2003294913	2003-10-15
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JP	A	20033372 08A2				none	